



**Product:** [9L28015](#)

Flat Gray Ribbon Cable .050" Pitch, 9L280XX Series, #28-15c, PVC Ins

## Product Description

Flat Gray Ribbon Cable .050" Pitch, 9L280XX Series, 15 Conductor, 28 AWG (7x36) Tinned Copper, PVC Insulation

## Technical Specifications

### Product Overview

Suitable Applications:	Internal interconnection, internal wiring of electronic equipment, reliable mass-termination to standard IDC connectors
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### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material
28	7x36	TC - Tinned Copper

Conductor Count:	15
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#### Insulation

Material	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.010 in

#### Color Chart

Color
Gray

Table Notes:	First Conductor has Red Stripe
Weight:	2.6 lbs

### Construction and Dimensions

Conductor Spacing Center-Center:	.050 +/- .002 in
Conductor Spacing Center-Center Outside:	.700 +/- .008 in
OuterJacket1, Nominal Width:	.750 +/- .008 in
OuterJacket1, Nom Thick Flat Section:	0.035 in

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR
68.2 Ohm/1000ft

#### Capacitance

Element	Nom. Capacitance Conductor to Conductor
@ 1 kHz (GSG)	18 pF/ft
@ 1 MHz (GS)	10 pF/ft
@ 1 MHz (GSG)	15 pF/ft

Min Insulation Resistance:	10,000 MOhm
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#### Inductance

Element	Nominal Inductance
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@ 1 MHz (GS)	0.29 $\mu$ H/ft
@ 1 MHz (GSG)	0.2 $\mu$ H/ft

#### Impedance

Nominal Characteristic Impedance	Nominal Characteristic Impedance Description
150 Ohm	(GS)
105 Ohm	(GSG)

#### High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
10 MHz	2.8 dB/100ft
20 MHz	4.8 dB/100ft
30 MHz	6.5 dB/100ft
40 MHz	8.3 dB/100ft
50 MHz	9.8 dB/100ft
60 MHz	12 dB/100ft
70 MHz	13 dB/100ft
80 MHz	14 dB/100ft
90 MHz	15.8 dB/100ft
100 MHz	17 dB/100ft

Table Notes: GSG=Ground-Signal-Ground Mode

#### Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.4 ns/ft	72%

#### Unbalanced Crosstalk

Element	Typical Unbalanced NEXT %	Typical Unbalanced FEXT %	Typical Cross Talk Pulse Rise Time (ns)
10 ft. sample length	4.8	7	3 ns
10 ft. sample length	3.5	4.7	5 ns
10 ft. sample length	3	3	7 ns

#### Current

Max. Recommended Current [A]
1 Amp per Conductor at 20°C

#### Voltage

Dielectric Withstand Voltage	UL Voltage Rating
2000 V	300 V

#### Temperature Range

Operating Temp Range: -40°C to +105°C

#### Mechanical Characteristics

Bulk Cable Weight:	17 lbs/1000ft
Min. Bend Radius During Installation:	2.6 in
Min. Bend Radius/Minor Axis:	2.625 in

#### Standards

UL AWM Style Compliance:	2651
CSA AWM Compliance:	1 A

#### Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
MII Order #39 (China RoHS):	Yes

## Suitability

Suitability - Indoor:	Yes
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## Flammability, LSOH, Toxicity Testing

UL Flammability:	VW-1
CSA Flammability:	FT1
UL voltage rating:	300 V

## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Part Number

### Variants

Item #	Color	Length	UPC
9L28015 008H100	Gray	100 ft	612825221630

## History

Update and Revision:	Revision Number: 0.392 Revision Date: 12-15-2021
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